

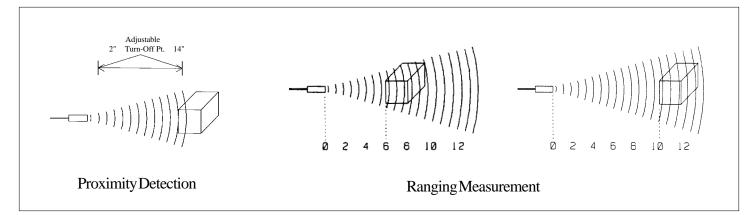
Features

- Various Sensing Ranges
- Broad Sensing Beam
- Low Frequency 38.5kHz
- LED Indicator
- Small Transducer Head
- Remote Transducer
- RPS-500 Compatible
- 3-Way Power Operation
- Isolated Form C Relay Output
- Small Electronic Controller

The RPS-100 is the first of the RPS series and has a proven track record of reliability. Since its introduction in 1979, the RPS-100 has proven itself in versatility and ease of operation. The remote transducer allows for mounting of the sensor head in cramped spaces while the controller is out of the way. The ranging and proximity modes provide the versatility of simple detection, or actual distance measuring. The isolated form C relay furnishes N.O. and N.C. outputs, and with the addition of the RPS-500 card various analog outputs are supplied. The RPS-100 sensor, which operates at a frequency of 38.5kHz,



has a broad sensing beam which allows for detection of an object at greater angles of tilt. Sensing ranges available for the RPS-100 include 2" to 14", 5" to 72", and 10" to 240". Mounting flanges, LED indicator, ranging potentiometer, and 6-ft. transducer cable are included. Optional cable lengths are available.



Proximity Detection

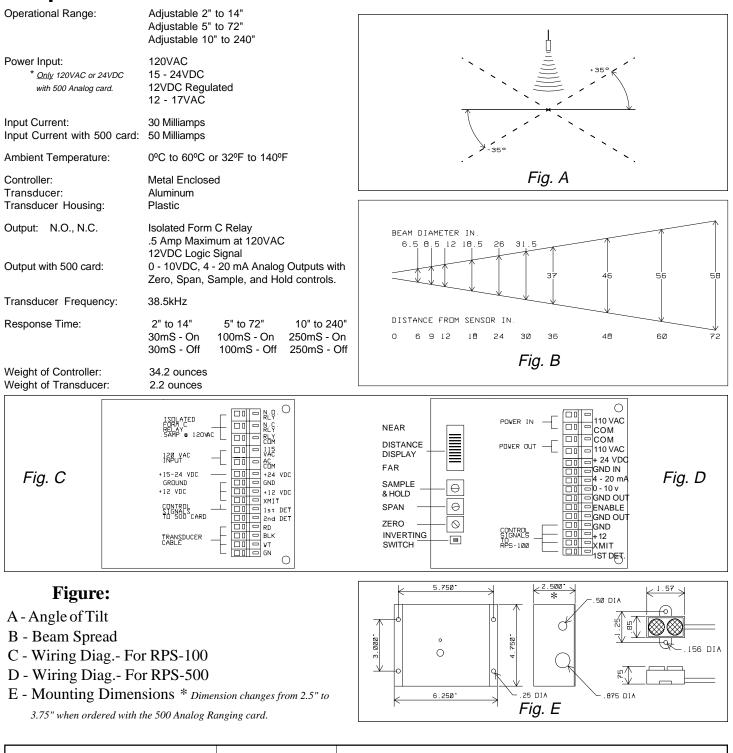
Proximity detection is the detection of an object in a given range. The detection range of the RPS-100 is controlled by the "Range Control" potentiometer located on the front cover of the controller. Any object within the desired range is detected, while objects out of range are ignored. The detect point is independent of size, material, and reflectivity.

Ranging Measurement

With the addition of the RPS-500 card, Analog outputs of 0-10 VDC and 4-20 mA are provided. Precise distances of an object moving to and from the transducer are measured via time intervals between transmitted and reflected bursts of ultrasonic sound. The example shows a target detected at 6 inches from the transducer and moving to 10 inches. The distance change is continuously calculated and outputted. Ranging Option is indicated by following the part number with (-500). (Example: RPS-100-14-500)

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Specifications:



PART NUMBER	RANGE	OUTPUT
RPS-100-14	2" - 14"	Isolated form C Relay
RPS-100-72	5" - 72"	Isolated form C Relay
RPS-100-240	10" - 240"	Isolated form C Relay
RPS-100-14-500	2" - 14"	0 - 10VDC and 4 - 20mA Analog
RPS-100-72-500	5" - 72"	0 - 10VDC and 4 - 20mA Analog
RPS-100-240-500	10" - 240"	0 - 10VDC and 4 - 20mA Analog



(815) 338-5800 / FAX: (815) 338-5803

935 Dieckman Rd., Woodstock, Il. 60098 USA http://www.migatron.com e-mail: info@migatron.com